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**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Applicant Daniel E. Resasco, et al.

Filing Date Herewith

Group Unknown

**U. S. PATENT DOCUMENTS**

EXAM INIT.		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WA	AA	4	6	6	3	2	3	0	05/05/1987	Tennent	428	367	
	AB	5	1	6	5	9	0	9	11/24/1992	Tennent et al.	423	447	
	AC	5	2	2	7	0	3	8	07/13/1993	Smalley et al.	204	173	
	AD	5	3	0	0	2	0	3	04/05/1994	Smalley	204	157	
	AE	5	4	8	2	6	0	1	01/09/1996	Ohshima et al.	204	173	
	AF	5	5	4	3	3	7	8	08/06/1996	Wang	502	174	
	AG	5	5	5	6	5	1	7	09/17/1996	Smalley	204	157	
	AH	5	5	6	0	8	9	8	10/01/1996	Uchida et al.	423	461	
	AI	5	5	7	8	5	4	3	11/26/1996	Tennent et al.	502	180	
	AJ	5	5	8	7	1	4	1	12/24/1996	Ohshima et al.	423	461	
	AK	5	5	9	1	3	1	2	01/07/1997	Smalley	204	157	
	AL	5	6	0	3	9	0	7	02/18/1997	Grochowski	423	210	
	AM	5	6	4	8	0	5	6	07/15/1997	Tanaka	423	445	
	AN	5	6	4	1	4	6	6	06/24/1997	Ebbesen et al.	423	447	
	AO	5	6	9	5	7	3	4	12/09/1997	Ikazaki et al.	423	461	
	AP	5	6	9	8	1	7	5	12/16/1997	Hiura et al.	423	447	
	AQ	5	7	0	7	9	1	6	01/13/1998	Snyder et al.	502	416	
	AR	5	7	4	4	2	3	5	04/28/1998	Creehan	428	364	
	AS	5	7	5	3	0	8	8	05/19/1998	Olk	204	173	
	AT	5	7	7	3	8	3	4	06/30/1998	Yammamoto et al.	204	192	
	AU	5	7	8	0	1	0	1	07/14/1998	Nolan et al.	427	216	
	AV	5	8	1	4	2	9	0	09/29/1998	Niu et al.	423	344	
	AW	5	8	7	7	1	1	0	03/02/1999	Snyder et al.	502	180	
	AX	5	9	6	5	2	6	7	10/12/1999	Nolan et al.	428	408	
	AY	5	9	8	5	2	3	2	11/16/1999	Howard et al.	423	447	
✓	AZ	5	9	9	7	8	2	3	12/07/1999	Lieber et al.	423	249	

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09/98847  
11/19/01

## FOREIGN PATENT DOCUMENTS

EXAM INIT.	Office	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
6/20	BA	PCT/US00/15362	unknown	International Search Report	—	—		
↓	BB	9709272	03/13/1997	PCT/US	—	—	X	
	BC	98392550	09/11/1998	PCT/US	—	—	X	
	BD	9842620	10/01/1998	PCT/JP	—	—		X
↓	BE	WO 00/17102	03/30/2000	PCT International Publication	—	—		

## OTHER DOCUMENTS

(Including, Author, Title, Date, Pertinent Pages, Etc.)

EXAM INIT.		
6/20	CA	Bethune et al.; "Cobalt-Catalysed Growth of Carbon Nanotubes with Single-Atomic-Layer Walls," <u>Nature</u> , 363:605-607, Jun 1993.
	CB	V. Brotons et al., "Catalytic influence of bimetallic phases for the synthesis of single-walled carbon nanotubes", JOURNAL OF MOLECULAR CATALYSIS, A: Chemical 116 (1997) 397-403.
	CC	Cassell et al., "Large Scale CVD Synthesis of Single-Walled Carbon Nanotubes", AMERICAN CHEMICAL SOCIETY, pp. 6483-6492, 1999.
	CD	Che et al., "Chemical Vapor Deposition Based Synthesis of Carbon Nanotubes and Nanofibers Using a Template Method", CHEMICAL MATER. 1998, 10, PP. 260-267.
	CE	Chen et al., "Growth of carbon nanotubes by catalytic decomposition of CH <sub>4</sub> or CO on a Ni-MgO catalyst", CARBON VOL. 35, No. 10-11, pp. 1495-1501, 1997.
	CE	Cheng et al.; "Bulk Morphology and Diameter Distribution of Single-Walled Carbon Nanotubes Synthesized by Catalytic Decomposition of Hydrocarbons," Chemical Physics Letters, 289:602-610, 1998.
	CG	Cheng et al.; "Large-Scale and Low-Cost Synthesis of Single-Walled Carbon Nanotubes by the Catalytic Pyrolysis of Hydrocarbons," Applied Physics Letters, 72(25):3282-3284, 06/25/98.
	CH	Dai et al.; "Single-Wall Nanotubes Produced By Metal-Catalyzed Disproportionation of Carbon Monoxide," Chemical Physics Letters, 260:471-475, 1996.
	CI	Database, Accession No. 1999-366878, Cano, "Canno KK", XP-002149235, 05/25/1999.
	CJ	Fonseca et al., "Synthesis of single-and multi-wall carbon nanotubes over supported catalysts", APPLIED PHYSICS A, 67, PP. 11-22, 1998.
↓	CK	Govindaraj et al., "Carbon structures obtained by the disproportionation of carbon monoxide over nickel catalysts", MATERIALS RESEARCH BULLETIN, Vol. 33, No. 4, pp. 663-667, 1998.

EXAM INIT.	OTHER DOCUMENTS <small>(Including, Author, Title, Date, Pertinent Pages, Etc.)</small>	
DA	Hafner et al., "Catalytic growth of single-wall carbon nanotubes from metal particles", CHEMICAL PHYSICS LETTERS, 296, PP 195-202, 1998.	
DB	Hernadi et al., "Catalytic synthesis of carbon nanotubes using zeolite support", ELSEVIER SCIENCE INC. 1996.	
DC	HYPERION CATALYSIS INTERNATIONAL Website; <del>http://www.fibrils.com/esd.htm</del> ; "Unique Slough Resistant SR™ Series ESD Thermoplastic Product Line Offers Reduced Particle Contamination For Demanding Electronic Applications," <del>and Hyperion Homepage</del> <del>http://www.fibrils.com</del> .	
DD	I. Willems et al., "Control of the outer diameter of thin carbon nanotubes synthesized by catalytic decomposition of hydrocarbons", CHEMICAL PHYSICS LETTERS, 317 (2000) pp. 71-76.	
DE	Iijima, Sumio; "Helical Microtubules of Graphitic Carbon," Nature, 354:56-58, Nov 1991.	
DF	Iijima et al.; "Single-Shell Carbon Nanotubes of 1-nm Diameter", Nature 363:603-605, Jun 1993.	
DG	Ivanov et al.; "The Study of Carbon Nanotubes Produced by Catalytic Method," Chemical Physics Lettersm 223:329-335, 1994.	
DH	Journet et al.; "Large-Scale Production of Single-Walled Carbon Nanotubes by the Electric-Arc Technique," Nature, 338:756-758, Aug 1997.	
DI	B. Kitiyanan et al., "Controlled production of single-wall carbon nanotubes by catalytic decomposition of CO on bimetallic Co-Mo catlaysts", CHEMICAL PHYSICS LETTERS, 317 (2000), pp. 497-503, 2/4/2000.	
DJ	Krishnankutty et al.; "The Effect of Copper on the Structural Characteristics of Carbon Filaments Produced from Iron Catalyzed Decomposition of Ethylene," Catalysts Today, 37:295-307, 1997.	
DK	Li et al., "Large-Scale Synthesis of Aligned Carbon Nanotubes", SCIENCE, Vol. 274, pp. 1701-1703.	
DL	Rinzler et al.; "Large-Scale Purification of Single-Wall Carbon Nanotubes: Process, Product, and Characterization," Applied Physics A, 67:29-37, 1998.	
DM	Thess et al., "Crystalline Ropes of Metallic Carbon Nanotubes, SCIENCE, Vol. 273, pp. 483-487.	
DN	Yakobson et al.; "Fullerene Nanotubes: C <sub>1,000,000</sub> and Beyond," American Scientist, 85:324-337, Jul-Aug 1997.	
EXAMINER	<div style="display: flex; justify-content: space-between;"> <span><i>Re. Anden</i></span> <span>DATE CONSIDERED 6/27/93</span> </div>	
<small>EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609: Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to the applicant.</small>		